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PHARMACIA & UPJOHN
JULIE LYONS
GLOBAL INTELLECTUAL PROPERTY
301 HENRIETTA STREET, 0228-32-LAW
KALAMAZOO, MI 49001-0199

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RECORDATION DATE: 11/07/2000

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NUMBER OF PAGES: 3

BRIEF: ASSIGNMENT OF ASSIGNOR'S INTEREST (SEE DOCUMENT FOR DETAILS).

ASSIGNOR:

FORD, CHARLES W.

DOC DATE: 03/10/1999

ASSIGNOR:

QUINN, CHERYL L.

DOC DATE: 03/10/1999

ASSIGNEE:

PHARMACIA & UPJOHN COMPANY
301 HENRIETTA STREET
GLOBAL INTELLECTUAL PROPERTY
KALAMAZOO, MICHIGAN 49001

SERIAL NUMBER: 09600392
PATENT NUMBER:

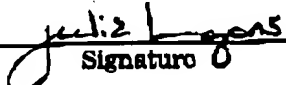
FILING DATE: 09/08/2000
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PATENT/Docket No.: 6187.P CP

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| 1. Name of Party(ies) conveying an interest: Charles W. Ford Cheryl L. Quinn | 2. Name and address of Party(ies) receiving an interest: Pharmacia & Upjohn Company Global Intellectual Property 301 Henrietta Street Kalamazoo, MI 49001 | |
| 3. Description of the interest conveyed: <input checked="" type="checkbox"/> Assignment <input type="checkbox"/> Merger <input type="checkbox"/> Security Agent <input type="checkbox"/> Change of Name <input type="checkbox"/> Other Execution Date: March 10, 1999 | | |
| 4. Application number(s) or patent number(s). Additional sheet attached <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If this document is being filed together with a new application, the execution date of the application is: _____ date | | |
| A. Patent Application No.(s) PCT/US99/00871, filed January 12, 1999 Now US 09/800892, filed July 14, 2000 | B. Patent No.(s) | |
| 5. Name and address of party to whom correspondence concerning this document should be faxed: Julie Lyons, Legal Assistant Pharmacia & Upjohn, 0228-32-LAW Global Intellectual Property 301 Henrietta Street Kalamazoo, Michigan 49001-0199 Fax Number 616-833-8897 | 6. Number of applications and patents involved: <p style="text-align: center;">One</p> | |
| | 7. Amount of fee enclosed or authorized to be charged: <p style="text-align: center;">\$40.00</p> | |
| | 8. Deposit account number: 21-0718 | |
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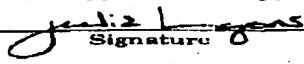
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| A. Patent Application No.(s) PCT/US99/00871, filed January 12, 1999 Now US 09/600892, filed July 14, 2000 | | B. Patent No.(s) | |
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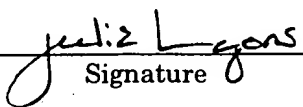
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| 4. Application number(s) or patent number(s). Additional sheet attached <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If this document is being filed together with a new application, the execution date of the application is: _____ date | | |
| A. Patent Application No.(s) PCT/US99/00371, filed January 12, 1999 Now US 09/600392, filed July 14, 2000 | | B. Patent No.(s) |
| 5. Name and address of party to whom correspondence concerning this document should be faxed: Julie Lyons, Legal Assistant Pharmacia & Upjohn, 0228-32-LAW Global Intellectual Property 301 Henrietta Street Kalamazoo, Michigan 49001-0199 Fax Number 616-833-8897 | 6. Number of applications and patents involved: <div style="text-align: center; font-size: 1.2em;">One</div> | |
| | 7. Amount of fee enclosed or authorized to be charged: <div style="text-align: center; font-size: 1.2em;">\$40.00</div> | |
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| <div style="text-align: center;">  _____ Signature </div> | | <div style="text-align: center;"> Julie Lyons, Legal Assistant _____ Name of Person Signing </div> |
| Date: _____ November 7, 2000 | | |

ASSIGNMENT

Title: An Autoregulatory System for Validating Microbial Genes as Possible
Antimicrobial Targets

Inventors: Charles W. Ford, Cheryl L. Quinn

Serial No.: PCT/US99/00371

Filing Date: 12 January 1999

Docket No.: 6137.P CP

Country: US/RO

As a below-named inventor, I hereby declare that:

My post office address is as stated below under my signature and I am named as inventor of the inventions or discoveries (herein INVENTIONS) as described in the patent application (herein APPLICATION) identified above. In view of valuable consideration, receipt thereof is hereby acknowledged, I do hereby assign and transfer unto PHARMACIA & UPJOHN COMPANY, a corporation of the State of Delaware having a place of business at Kalamazoo, Michigan, its successors and assigns, my entire interest in and the full and exclusive right to the INVENTIONS, the APPLICATION and all related applications (including all divisions, reissues, continuations, and extensions thereof) and all counterparts in other countries, and any and all Letters Patent (and certificates of invention or similar certificates) (herein PATENTS) which may be granted based upon the INVENTIONS or the APPLICATION or related applications or counterparts in other countries; said transfer and assignment being applicable throughout the world. I hereby authorize and request officials of patent offices in any and all countries of the world to issue any and all of the PATENTS, when granted, to PHARMACIA & UPJOHN COMPANY, its successors and assigns, as the assignee of my entire right, title, and interest in and to the same. I agree that I will communicate to PHARMACIA & UPJOHN COMPANY, or its representatives, any facts known to me respecting the invention; testify in any legal proceedings; sign all lawful papers; execute all divisional, continuation, substitution, renewal, and reissue applications; execute all necessary assignment papers to cause any and all of the PATENTS to be issued to PHARMACIA & UPJOHN COMPANY; make all rightful oaths; and generally do everything possible to aid PHARMACIA & UPJOHN COMPANY, its successors and assigns, to obtain and enforce proper protection for the INVENTION in any and all countries throughout the world.

FULL NAME OF FIRST/SOLE INVENTOR: Charles W. Ford

Signature of Inventor: Charles W. Ford

Address: 1306 Carriage, Portage, Michigan 49024

STATE OF MICHIGAN
COUNTY OF KALAMAZOO

On 10 March 1999, the above-named inventor personally appeared before me and executed the foregoing instrument and acknowledged the same to be his/her free act and deed in and for the purposes set forth in said instrument.

SEAL _____

Kathryn Adamson
Notary Public

FULL NAME OF SECOND JOINT INVENTOR: Cheryl L. Quinn

Signature of Inventor: Cheryl L. Quinn

Address: 3010 Ridgeview Circle, Kalamazoo, Michigan 49008

STATE OF MICHIGAN
COUNTY OF KALAMAZOO

On 04 February 1999, the above-named inventor personally appeared before me and executed the foregoing instrument and acknowledged the same to be his/her free act and deed in and for the purposes set forth in said instrument.

SEAL _____

Notary Public

Kathryn Adamson

KATHRYN ADAMSON
Notary Public, Kalamazoo County, MI
My Commission Expires 12-16-2002